



University of Illinois Library  
Undergraduate Library  
Navy Pier  
Chicago 11, Ill.

*the*  
**ILLINOIS  
ENGINEER**



71st I. S. P. E. BOARD OF DIRECTION  
(See page 3)

☆ ☆ ☆  
THE ILLINOIS ENGINEER, MAY, 1955—VOLUME XXXI, NO. 5



# ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, Incorporated

Affiliated with the National Society of Professional Engineers

## BOARD OF DIRECTION

DWAIN M. WALLACE, President (71)\*

C. W. KLASSEN, Past President (71)

ROYCE E. JOHNSON, Vice-President (71)

A. D. SPICER, Secretary-Treasurer (71)

B. P. JOHNSON, Ambraw (71)

L. D. HUDSON, Capital (72)

A. W. NEUREUTHER, Central Illinois (72)

C. DALE GREFFE, Champaign County (72)

JOHN DOLIO, Chicago (72)

W. A. RAKOW, DuKane (72)

GEORGE H. ANDERSON, Egyptian (70)

F. L. DUNAVAN, Illinois Valley (71)

W. S. GRAY, Joliet (71)

R. G. KRAMER, Lake County (71)

G. R. THATCHER, Madison County (71)

KARL A. BRUGGER, Peoriarea (71)

ARNOLD LUNDGREN, Rockford (72)

H. H. CORDES, Rock River (72)

L. J. KEENAN, St. Clair (71)

L. S. PAPPMEIER, West Central (72)

GEO. L. DEMENT, N.S.P.E. Nat'l Director (71)

C. W. KLASSEN, N.S.P.E. Nat'l Director (71)

K. C. HOEGLUND, I.E.C. Representative (71)

JAMES E. SCOTT, Junior Representative (71)

P. E. ROBERTS, Executive Secretary

H. E. BABBITT, Secretary Emeritus

\* Refer to Annual Meeting at which present term expires.

## ILLINOIS ENGINEERING COUNCIL REPRESENTATIVES

K. C. HOEGLUND, Chairman, L. K. CRAWFORD, JOHN G. DUBA, J. D. VOORHEES

## CHAPTER OFFICERS FOR 1955

CHAPTER	PRESIDENT	VICE-PRESIDENT	SECRETARY-TREASURER	CHAPTER REPRESENTATIVE
<i>Ambraw</i>	J. W. Henline	C. L. Dees	I. C. Bliss	B. P. Johnson
<i>Capital</i>	L. H. Hendrick	C. A. Weiland	R. D. Collins, Sec'y C. E. Chenoweth, Treas.	L. D. Hudson
<i>Central Illinois</i>	Vail H. Moore	Gus Greanias	W. D. Hayes	A. W. Neureuther
<i>Champaign</i>	M. H. Kinch	E. R. Healy	Gordon V. Carlson	C. Dale Greffe
<i>Chicago</i>	H. F. Sommerschild	A. W. Graf	John G. Duba	John Dolio
<i>DuKane</i>	George M. Booth, Jr.	Noel Thomas	R. S. Thornton	W. A. Rakow
<i>Egyptian</i>	Donald E. Ball	Paul O. Hall	Frederick H. Persson	George H. Anderson
<i>Illinois Valley</i>	J. J. McNally	C. J. Chamlin	Francis E. Sexton	F. L. Dunavan
<i>Joliet</i>	L. W. Keeler	L. C. Gilbert	Robt. A. Brown, Sec'y Howard Hassert, Treas.	W. S. Gray
<i>Lake</i>	Sidney Danoff	Wm. J. Hooper	Urban C. Neyer, Sec'y K. E. Welton, Treas.	R. G. Kramer
<i>Madison</i>	Wm. L. Fabianic	H. V. McCoy	Edw. N. Juneau	George R. Thatcher
<i>Peoriarea</i>	Roy S. Kastner	Karl A. Brugger	Oscar Frost	Karl A. Brugger
<i>Rockford</i>	W. A. Johnson	John Duguid	John K. Grubbs	Arnold Lundgren
<i>Rock River</i>	W. O. Moore	C. C. Clausen	L. F. Holstein	H. H. Cordes
<i>St. Clair</i>	L. M. Krause	Manuel Garcia	Stanley Petraitis	L. J. Keenan
<i>West Central</i>	Chas. R. Roberts	M. L. Toepke	C. F. Bates	L. S. Pappmeier

## COMMITTEE APPOINTMENTS FOR 1955-56

### BOARD OF DIRECTION COMMITTEES

#### *Executive Committee*

Dwain M. Wallace, Chairman, Royce E. Johnson, A. D. Spicer, George DeMent.

#### *Honorary Membership*

James Whelan, Chairman, Alex Van Praag, Russell E. Gibbs, Titus G. LeClair.

#### *Illinois Award*

Chas. F. Manion, Temp. Chairman (71), H. F. Sommerschild (71), Robert M. Roy (72), Wm. S. Gray (72), Raymond G. Brichler (73), C. L. Calkins (73).

### SOCIETY COMMITTEES

#### *Advertising*

Kenneth E. Welton, Chairman, H. K. Dolbow, R. H. Bishop, Fritz Jenkins, J. O'Halloran, J. J. Wallace, Sr., R. G. Kramer, J. D. Voorhees, F. D. Berry, Dean Compher, David Johnson, Joseph Normoyle.

#### *Budget and Finance*

Royce E. Johnson, Chairman, Dwain M. Wallace, A. Douglas Spicer, Wm. S. Gray.

#### *Civil Defense*

V. E. Gunlock and C. W. Klassen, Co-Chairmen, R. E. Hedgecock, John Doak, W. A. Rakow, L. J. McGonigal, Burt K. Preston, H. V. McCoy, L. P. Murphy, Robert H. Anderson, Chas. F. Manion, Jr.

#### *Constitutional Amendments*

Frank Edwards, Chairman, George E. Ekblaw, J. R. Gardner, L. J. Keenan, Gilbert Henning, J. H. Morgan.

#### *Cooperation with Illinois Architects*

J. D. Voorhees, John Bleck, A. W. Kerr, Rodney Spangler, James G. Cooney, J. Raymond Carroll.

#### *Ethics and Practice*

Wm. T. Hooper, Jr., Chairman (71), R. T. Cash (71), L. D. Hudson (72), George DeMent (72), C. Dale Greffe (73), Robert Renwick (73).

#### *Fees and Salaries*

Vail H. Moore, Chairman (72), Earl H. Beling (71), Gordon V. Carlson (71), Robert E. Stanley (71), R. M. Brown (72), E. A. Falkenberg, Jr. (72), L. K. Crawford (73), Allen Drachman (73), A. W. Neureuther (73).

#### *Legislative*

Charles R. Roberts, Chairman, George L. Farnsworth, G. E. Rynearson.

### SUB-COMMITTEES AS FOLLOWS

*Legislative Action:* G. E. Rynearson, Chairman, E. R. Knight, R. W. Wallace, Harry A. Kluge, Gilbert D. Henning, Arthur M. Kaindl, Leo Spurling, Arnold Lundgren, Sidney Danoff.

*Legislative Analyzing:* Mack Kinch, Roy Kastner, A. H. Streicher, John Duguid.

*Registration Laws:* George L. Farnsworth, Chairman, Herman Dorn, Lawrence E. Doyle, A. W. Graf, Wm. T. Hooper, Jr.

#### *Membership*

Manuel Garcia, Chairman, R. B. Walter, A. Paul Tromper, Gilbert Henning, L. E. Doyle, A. H. Streicher, F. C. Mason, Ross Waite, L. C. Gilbert, J. V. Connell, George H. Shanahan, Thelma Miller, I. Shuler, Raymond G. Brichler.

#### *Past Presidents*

C. W. Klassen, Chairman, R. G. Brichler, A. D. Spicer.

#### *Professional Education*

M. E. Amstutz, Chairman, R. E. Gibbs, Wm. L. Everitt, Arnold J. Arnold, Harper Millard, D. S. Magowan, Wayne W. Wallace.

#### *Publications*

T. C. Shedd, Chairman, Bonnell H. Allen, John Dolio, M. H. Kinch, U. C. Neyer.

#### *Public Interests*

Louis Pappmeier, Chairman (71), L. M. Krause (71), N. H. Gundrum (71), Leo F. Koberlein (72), Burton A. Scheidt (72), John Henline (72), Robert M. Roy (73), C. W. Kerr (73), W. A. Johnson (73).

#### *Public Relations and Publicity*

Robert M. Roy, Chairman, H. K. Dolbow, D. R. Chicoine, W. J. Roberts, B. M. Kostenko, R. A. McCleavy, Wm. S. Chaney, F. Furlan, J. D. Voorhees, Marvin Merritt, Lyle Woodyatt, E. W. Markwardt.

#### *Resolutions*

D. S. Magowan, Chairman, Sidney Danoff, Burton A. Scheidt, James Morrow, E. Dean Antrobus.

#### *State Building Code*

John Dolio, Chairman, C. T. Morrisett, Stanley G. Cutler, A. L. Dierstein, Joseph V. Connell, Chas. N. Debes.

#### *State Engineering Employees*

Elmer R. Knight, Chairman, W. B. Worsham, Oscar Frost, Ellis Danner, C. E. Holtman, Frank L. Dunavan, R. A. Lonier.

#### *U.S.G.S. Mapping*

George H. Dell, Chairman, Max Suiter, George J. Chlebicki, Clifford Missman, V. A. Dragesovich.

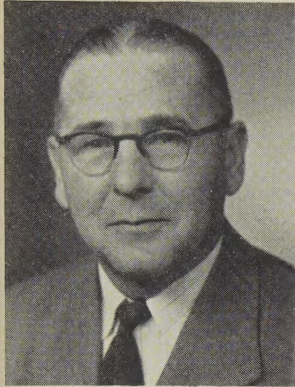
ILLINOIS ENGINEER: P. E. ROBERTS, Editor; C. DALE GREFFE and W. J. ROBERTS, Associate Editors.



# Of Interest to I. S. P. E.

## PRESIDENT'S MESSAGE

The 71st year of the Illinois Society of Professional Engineers had as its beginning, the Board of Direction meeting at Rockford on April 2, 1955. Your President, in fulfilling one of his many obligations, appointed some 25 committees. Many hours of consideration were required to assemble the names and itemize the various committees, and as a final duty, to select a capable chairman to coordinate the functions and responsibilities of each committee.



PRESIDENT WALLACE

It is impossible for me to personally contact all of the committee chairmen and members, therefore, I would appreciate it if each chairman and member of every committee would consider this letter as a personal request that you give generously and willingly of your time and thought to the fulfillment of your assignment. The findings and recommendations of the committees and the action of the Board of Direction, may well determine and shape the progress and the success of the Society, not only in 1955, but for years to come.

I am of the opinion that if all the Chapters would submit to the incoming President a list of suggested members for the various committees, it would be an easier task to select the state committees.

And to every member of the Illinois Society of Professional Engineers, I ask that you devote some of your time and abilities to increasing the membership of the Society; and as a final request, your sincere interest in the unity of the Profession, which will not only ultimately benefit you as a member, but also establish a firm and true future foundation for generations of "Professional Engineers."

In closing, I would like to use the following quotation for your consideration: "It is easy to count all of the apples on a tree, but it is impossible to count the trees in an apple."

DWAIN M. WALLACE, President.

When nothing seems to help, I go and look at a stone-cutter hammering away at his rock, perhaps a hundred times without as much as a crack showing in it. Yet, at the hundred and first blow it will split in two, and I know it was not that last blow that did it, but all that had gone before.

Jacob A. Riis.

## RESOLUTION

*WHEREAS, Professor William A. Oliver, P.E., has been Editor of the Illinois Engineer for the past twelve years, and*

*WHEREAS, He has had the responsibility for editing and composing its format, and*

*WHEREAS, He has, through his untiring efforts, brought the magazine to its present distinguished position in professional circles, and*

*WHEREAS, His time and devotion have been of inestimable value to the Society;*

*NOW, THEREFORE, BE IT RESOLVED, That the Illinois Society of Professional Engineers at its 70th Annual Meeting in recognition of his outstanding service, gratefully expresses its appreciation to Professor William A. Oliver for his many contributions to the Society, and*

*BE IT FURTHER RESOLVED, That a copy of this resolution be published in the Illinois Engineer.*

## CONTENTS OF THIS ISSUE

	Pages
Of Interest to ISPE . . . . .	1-3
Magowan Moves to Elgin . . . . .	4
Annual Meeting Reports	
Executive Secretary's Report	
Ethics and Practice Committee Report . . . . .	5
News of the Chapters . . . . .	7
Professional Directory . . . . .	11

Address all communications to the Illinois Society, 614 East Green Street, Champaign, Illinois.

The Illinois Society is not responsible for statements made or opinions expressed in this publication.

## SUBSCRIPTION RATES

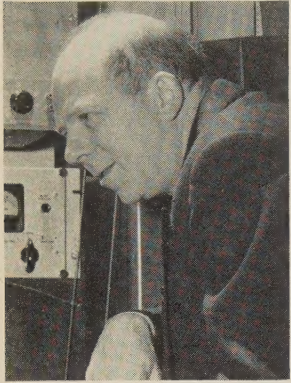
\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and its possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c. Published by the Illinois Society of Professional Engineers, Inc., at 614 East Green Street, Champaign, Illinois.

Entered as Second Class Matter April 27, 1949, at the Post Office, Champaign, Illinois.



## EVERITT 1954 ILLINOIS AWARD RECIPIENT

Upon the recommendation of the Illinois Award Committee and by action of the Board of Direction, Dean William L. Everitt was granted the Illinois Award for 1954. The presentation was made at the 70th Annual Meeting at Rockford.



W. L. EVERITT

The Award is "For his meritorious service in protecting and elevating the Profession of Engineering and for his devotion of thought and energy to the safeguarding the welfare of the general public."

The following quotations are from the rules set up by the Board of Direction and from the recommendation of the Committee, respectively.

"The basis of the award shall be for outstanding engi-

neering accomplishment or some exceptional contribution to the engineering profession. This contribution may be in the form of a paper, or unselfish public service.

"The only qualification necessary shall be that the recipient be an engineer of some reasonable degree of professional skill or administrative attainment. It is the intent that this award shall be an honor conferred upon a brother engineer by his fellow engineers on account of accomplishments or professional contributions which pre-eminently promote the happiness, comfort, and well-being of humanity."

The 1954 Illinois Award Committee consisted of C. J. McLean, Chairman; H. F. Sommerschild, Robert M. Roy, William S. Gray, G. H. Duff, and C. F. Manion, Jr.

Following is a list of the recipients of the award since its inception in 1931. Note: no award was made for the year 1953.

### Past Recipients of the Illinois Award

- 1954—William L. Everitt
- 1952—George E. Ekblaw
- 1951—C. W. Klassen
- 1950—Harold E. Babbitt
- 1949—Leo Spurling for exceptional contribution to the engineering profession.
- 1948—State Senator Arthur M. Kaindl for distinguished service to the engineering profession.
- 1947—Col. W. E. Trower, "Comprehensive Flood Control Plan for the Illinois River Basin."
- 1946—V. E. Gunlock, "Chicago Subway System."
- 1945—Alex Van Praag, Jr., "The Small Public Waterworks System, Its Romance and Tragedy."
- 1944—S. M. Wood, "Erosion of Our Coastal Frontiers. Part II."
- 1943—A. P. Greensfelder, "The Civil Engineer in War and Post-War Activities."

- 1942—F. L. Osborn, "Engineering Insurance."
- 1941—H. E. Babbitt, "The Flow of Mud and Sludge."
- 1939—S. M. Wood, "Stages of Victoria Nyanza."
- 1938—J. R. Longley, "The Gas Power of Greater Peoria Sanitary District."
- 1937—L. C. Whittemore and N. E. Anderson, "Design of Sewage Treatment Works of the Sanitary District of Chicago."
- 1936—S. M. Wood, "The Cycle of the Great Lakes."
- 1934—A. C. Stanfield, "Some Features of the Flora, Illinois, Water Supply System."
- 1933—M. B. Reynolds and A. E. Gorman, "Chicago's Water Pollution Problem—Past and Future."
- 1932—W. B. Walraven, "Development of Power from Sewage Sludge Gas."
- 1931—W. W. Mathews, "The Galesburg Sanitary District."

## WOMEN'S CONVENTION ACTIVITIES

by MRS. ROBERT AHLGREN

The 1955 Illinois convention is now just a memory, but we hope it is as pleasant a one for all the Engineers' wives as it is for the Rockford Auxiliary. Thursday morning, March 31, the ladies shopped around Rockford and settled themselves in their rooms. That afternoon there was a delightful tea at the home of Mrs. Royce Johnson, 405 Summer St., Rockford. There we enjoyed meeting and talking to all of you. In the evening we joined the men at the Forest Hills Country Club for the Smorgasbord and dancing to a real Swedish band.

Breakfast next morning at the Wagon Wheel was no April Fool's joke and while eating we got a preview of the latest spring fashions from Dawn's Dress Shop. The models, all members of the auxiliary, were Mrs. A. J. Arnold, Mrs. O. N. Begtrup, Mrs. C. C. Dodge, Mrs. Roger Ericson, Mrs. D. F. Lillie, Mrs. A. A. Myers, Mrs. Clifford Nelson, Mrs. C. R. Putz, Mrs. J. B. Schubeler, Mrs. J. G. Shedd and Mrs. E. L. Young. After breakfast the ladies toured Woodward Governor Company plant ending with a most interesting movie of their new methods of plant management. Luncheon was served at the new Y.M.C.A. building on the edge of the river. Riverdahl Elementary School, Rockford, had prepared a fascinating engineering exhibit on different phases of the profession that we toured next. The teachers and pupils also served us tea. We were all amazed at the skill of these grade school children. A fitting climax to two exciting days was the banquet Friday night at the Faust Hotel. I'm sure everyone felt that Dr. McFarland's talk was well worth waiting for.

Credit for these fine women's activities belongs first of all to Mrs. Bart Schubeler, general chairman for the ladies. However praise is also due to the effort of the following women: Assistant Chairman, Mrs. A. A. Meyers; Mrs. C. H. Wilson and Mrs. C. V. Chapman, Greet-

(Continued on page 3)



## Charles Baker Burdick Obituary

Mr. Charles Baker Burdick, a member of the Illinois Society of Professional Engineers since 1903, nationally known hydraulic and sanitary engineer, partner in the Chicago engineering firm of Alvord, Burdick & Howson, died on February 17, 1955. Mr. Burdick's professional practice had centered in Illinois although it had been national in scope. He was graduated from the University of Illinois in 1896 in its second graduating class in municipal and sanitary engineering. Mr. Burdick became associated with John W. Alvord in 1902, forming a partnership which continued throughout their lifetimes. Mr. Burdick was active in his profession until a few days before his death.



CHARLES BAKER BURDICK

Mr. Burdick was a frequent contributor to engineering literature. He was also active in engineering society work. His accomplishments were recognized by the conferring of Honorary Memberships by the Illinois Society of Professional Engineers, American Society of Civil Engineers, Western Society of Engineers, American Water Works Association and the Chicago Engineers Club. He was a past President of the Illinois Society of Professional Engineers (1907-08), Western Society of Engineers and the Chicago Engineers Club and had served as Director and Vice President of the American Society of Civil Engineers. He had also served the Illinois Society of Professional Engineers as Chairman of its Water Works Committee, Chairman of its Legislature Committee and member of its Committee on Fees and Ethics. A fifty-year certificate was presented to him during the Centennial of Engineering in September, 1952.

(Continued from page 2)

ing and Information; Mrs. E. J. Gronecki, Mrs. O. N. Begtrup, and Mrs. Clifford Nelson, Decorations; Mrs. Rodger Ericson, Entertainment; Mrs. C. G. Dodge, Tours; Mrs. C. E. Love and Mrs. Frank Polkowski, Coffee Table; Mrs. C. R. Putz and Mrs. A. J. Arnold, Breakfast; Mrs. C. W. Freeberg, Cars; and Mrs. Robert Ahlgren, publicity.

### 71st BOARD OF DIRECTION

(Cover Picture)

Rockford, Ill., April 2, 1955

Bottom row, left to right: G. R. Thatcher, Madison County; P. E. Roberts, Executive Secretary; A. Douglas Spicer, Secretary-Treasurer; Dwain M. Wallace, President; Royce E. Johnson, Vice-President; Clarence W. Klassen, Past President; George L. DeMent, National Director; L. J. Keenan, St. Clair. Second row: Arnold Lundgren, Rockford; Gilbert Henning, Central Illinois; H. H. Cordes, Rock River; L. S. Pappmeier, West Central; R. G. Kramer, Lake; F. L. Dunavan, Illinois Valley; Douglas Dreier, DuKane; L. D. Hudson, Capital. Top row: Karl Brugger, Peoria; Wm. S. Gray, Joliet; John Dolio, Chicago; K. C. Hoeglund, Chairman IEC Representatives; B. P. Johnson, Ambraw; Gordon V. Carlson, Champaign County.

### A LOOK AT MEMBERSHIP PROBLEMS

It may be a surprise to some of those belonging to the Illinois Society that in spite of the fact that you are constantly being asked to help get new members, every so often the Board of Direction votes "Not to Accept" an application. For your information, a man may be registered, he may have practiced within the law for several years, but if he does not measure up to the Board of Direction's standards in respect to ethical or moral conduct, he might be not elected to membership. Questions of ethical and moral standing are constantly being asked by the Board.

Within the last year, two applications have been rejected by the Board; one because of alleged unethical conduct and the other because the applicant was unwilling to accept the grade of membership for which he was qualified. In two other cases, both members of the Society, one was dropped after a search for facts on unethical conduct had been made and verified by the Ethics and Practice Committee, and the other dropped because of an indictment and trial leading to a penitentiary sentence.

There are over 15,000 registered professional engineers in the State of Illinois who are not members of the Society. Out of that number, there are possibly 100 who by their slipshod business methods and their too flexible attitude on ethics would not be desirable members. We need the balance of the 15,000 registered engineers as members of the Illinois Society. There is plenty of area to work in, since each member of the Illinois Society could bring in 10 new members before the supply is exhausted. When the supply of non-member engineers runs out, there will be a fresh supply from our four colleges of engineering in Illinois. Help your Society and your Chapter by signing at least two new members during 1955.



## MAGOWAN MOVES TO ELGIN

D. S. Magowan, who holds the Illinois Society distinction of being Past President of both the Chicago Chapter (1948) and Capital Chapter (1953) has moved into the DuKane Chapter area. On April first, Richard T. Cash, who was President of DuKane Chapter in 1950, retired and Don Magowan took over as Chief of District I, Elgin, office of the State of Illinois Division of Highways.

Dick Cash is quoted as saying that he is going to take a long vacation with his wife through the south. Mr. Cash became a member of the Illinois Division of Highways in 1917 and except for a brief absence to Washington during World War I as Chief Checker of map reproduction has been with the Department since. He was assistant district engineer at Ottawa, then to Elgin and on to become head of District V office at Paris, returning to Elgin in 1943.

Don Magowan joined the Department in 1923 in Effingham where he served as inspector, resident engineer, chief of survey, and construction engineer. In 1942 he was moved to Chicago as construction engineer. In 1950 he went to Springfield as technical personnel officer for Frank Barker, moving to the Bureau of Local Roads and Streets, and becoming section chief in 1953.

Both have a wide acquaintance throughout the Society.



R. T. (Dick) CASH, Seated  
D. S. DON MAGOWAN

The best measure of a man's mentality is the importance of the things he will argue about.

—Public Safety.

## ARMCO Drainage Structures are

**STRONG, DURABLE, ECONOMICAL**

### ARMCO DRAINAGE & METAL PRODUCTS, INC.

631 Princeton Ave.  
Springfield, Ill.

310 S. Michigan Ave.  
Chicago, Illinois

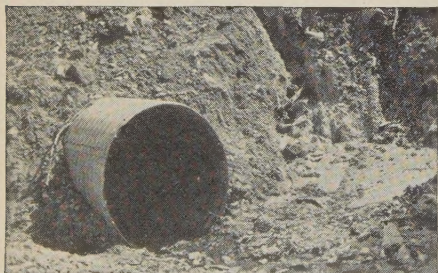
**ARMCO DRAINAGE STRUCTURES**



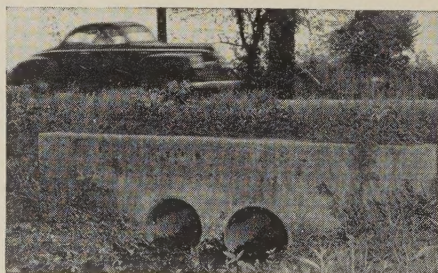
And here's proof! (1) This Armco MULTI-PLATE Pipe is under 165 feet of fill in North Carolina. (2) Twin installation of Armco Corrugated Metal Pipe, installed in Ohio in 1907, is still giving good service. (3) Installed cost of Armco MULTI-PLATE Pipe-Arch, used as a storm sewer in Wisconsin, was less than that of competitive monolithic structures.

These are typical case histories for Armco Corrugated Metal Drainage Structures. With Standard Pipe, installation is a matter of joining 20-foot sections with bolted coupling bands. MULTI-PLATE Structures are assembled by bolting together curved and corrugated plates. Tamping and backfilling completes the job for either type of structure.

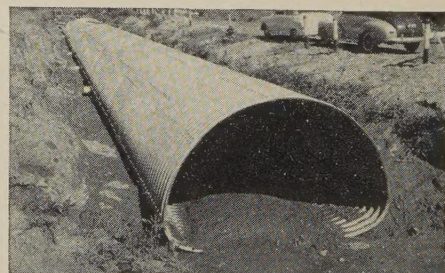
Armco Drainage Structures are widely used on local and secondary roads as well as the nation's most famous expressways. There are types and sizes to meet practically any drainage need. For more details, write us.



Under High Fill



After 48 Years



Low Installed Cost



# From the 1954 Illinois Society Annual Reports

## REPORT OF THE EXECUTIVE SECRETARY

By P. E. ROBERTS

The Executive Secretary's office continues to be the focal point in Illinois Society activity. Each year the Chapter officers look toward the office for information and help. State committee chairmen also are using the facilities of the office more than they ever have.

### *Financial Condition*

The report of the Auditor shows in detail the exact status of the Society's finances. The gain in income over expenses was accomplished by the continuation of a rigid policy of strict economy. 1954 ended as did 1953, with less being spent than had been set-up in the budget. The increase in net worth as a result of 1954 operation was accomplished through the cooperation and good work of many. There is no way to isolate the gain in one item or another, since the management of the Society is through a cross section of many budget items which are interdependent. The same is true when the attempt is made to separate one year's operation from the preceding or the subsequent year's operation. 1954 showed a gain of \$268.13 while 1953 showed a gain of more than \$800.00. Part of the 1953 gain could be applied to 1952 or 1954 operations, however, the important consideration is that in the last five years the net gain over expense has been substantial. Your Society is in good financial condition and will remain so as long as present policies are continued.

### *Membership*

Membership totals continue on the plus side. During 1954 again, the number of National and E-I-T members increased and the number of State and Junior members decreased. This is a continuation of the trend begun in 1946 when there were 146 National members and 1,409 State members. On December 3, 1954 there were 1,071 National members and 392 State members. Drops for non-payment of dues have leveled off at plus or minus 80 per year. The loss of members as a result of the increase in National dues (\$3.00 National and \$1.00 E-I-T) was not as great as anticipated, but your attention is directed to the December 3rd Membership Situation. The "In Arrears" in National members has increased from 53 to 70 and in E-I-T grade the increase is from 19 to 25. In all other grades of membership in the Society the number of those in arrears has decreased in 1954 over 1953. The greater loss must be attributed to the increase in dues. Membership problems will be present so long as the membership "pie" is divided into so many pieces.

### *Chapters*

The 16 Chapters continue to function with more interest in Chapter Meeting Programs. Several Chapters have excellent year long programs and the schedule is

(Continued on page 9)

## COMMITTEE ON ETHICS AND PRACTICE

by J. R. GARDNER, Chairman

The following annual report is submitted outlining the activities of this Committee during the last year:

Two Committee meetings were held during the year, one in the Illini Union Building in Urbana on June 26, 1954, and the other in the office of the Commissioner of Public Works in Chicago on Dec. 10, 1954. All members of the Committee were present at both meetings. Many cases were discussed and decisions reached at these meetings. In addition, considerable correspondence and telephone contacts were carried on between the Committee members, leading to further decisions on matters which came before the Committee. The major decisions are as follows:

### *A. T. Case*

This case involved the alleged stealing of trade secrets and violation of a contract for furnishing engineering services by a Mr. "X" of Chicago, a member of our Society at the time of the alleged violation. The Chicago Chapter Ethics & Practice Committee investigated the case and handed down a decision, concurred in by our Committee, that (1) unsuccessful attempts were made to contact Mr. "X" and that he was apparently not interested in clearing his name, (2) that he has moved from the State and is now out of the jurisdiction of our Society, (3) that the complainant is a Michigan Company and our State regulating bodies have no authority to investigate since damage or injury to the people of Illinois is not involved, and (4) that a valid contract existed between "Y" and "X" for the supplying of certain engineering services, and, since Mr. "X" violated certain terms of the contract, the Company has legal cause for action against Mr. "X."

### *City of "A"—City of "C" Cases*

These cases involved the furnishing of free engineering services by equipment supply corporations and companies as a means of price cutting. These cases were turned over to the Department of Registration and Education for investigation. The Department submitted a report on their investigation, stating (1) the equipment suppliers in both cases had used the Superintendents of Utilities of their respective city to allow their names to be used in connection with the planning, and (2) there was no violation since municipal employees can practice without a license under the exemption provision of the Professional Engineering Act.

### *Elevator Case*

This case involved the collapse of a grain elevator in which unethical engineering practices were suspected. At the present time a judgment of \$51,000 has been handed down by the County Court against the contractor



in favor of the grain elevator company as represented by their insurance company. The case has been appealed to the appellate court. This case was referred to the Department of Registration and Education for investigation, but they have declined to investigate until the court suit has been settled.

#### *Telephone Listings*

The matter of securing listings in the telephone directories which would show Registered Professional Engineers listed as such was referred to the Chapters of the Society for contact with their local telephone companies. Upon receipt of replies from the Chapters by the State Society, the matter was referred back to our Committee. The principal telephone company in this State is the Illinois Bell Telephone Co. The remainder of the telephone companies are looking to Illinois Bell for leadership and policy making in this matter.

The Illinois Bell Telephone Co. has turned the matter over to their directory printer, the Rueben H. Donnelley Corp. of Chicago. At the present time negotiations are being conducted between Mr. L. W. Wilson, representing the Donnelley Company, and Mr. George DeMent, a member of our Committee, and National Director from ISPE to NSPE. At this writing clarification of policy is inconclusive but there are indications that the outlook is favorable to our cause.

#### *Agency Case*

This case involved the complaint by engineers who are members of ISPE, as well as engineers who are not members of ISPE, alleging the furnishing of free engineering services by a Government agency in drainage and conservation work. A public meeting was held in Urbana by our Committee at which time representatives of the complainants and representatives of the agency appeared and expressed their views in the matter.

It was brought out at this meeting that the official policy of the agency in the matter of furnishing engineering services is outlined by the Federal Government. This states that the official policy is to furnish preliminary assistance to farmers and drainage districts, that their services are for policy making and guidance, and control of procedures in drainage and conservation matters that

come to their attention, that their services are of an advisory, educational and administrative nature, and that detailed assistance is given only if private engineers are not available. The Agency Engineer stated that he would, and since then he has done so, attempt to implement the directive with respect to cooperation with private engineers.

Our Committee made the following observations as a result of the evidence submitted. These were approved by the Board of Direction at their meeting Oct. 2, 1954.

1. There was no conclusive evidence that the agency had furnished detailed engineering service without first encouraging private engineers to become interested in this detailed work. There was, however, circumstantial evidence that the agency had not made sufficient effort to interest private engineers and to properly cooperate with them. There was also evidence that the private engineers had not made sufficient effort to understand the agency procedure.

2. The proceedings of two drainage districts upon which the agency was furnishing engineering services had proceeded to the extent that the policy of using private engineers for the detailed work was out of the question.

3. Administrator's Memorandum is very clear concerning the cooperation of the agency with private engineers, and the encouragement of the use of private engineers for the detailed planning work, if private engineers are available in the area where the work is proposed.

4. The State Agency Engineer has stated that he concurs with the Memorandum, and will take steps to implement this directive. Since the hearing, he has done so.

5. It was apparent that lack of cooperation between the agency and private engineers was a local matter, since private engineers in certain parts of the State do not have this problem. Both the agency and the private engineers should attempt to meet and discuss their mutual problems, so that each will better understand the problems of the other.

6. The interested private engineers must be the watch dog for our Society and our Committee in relation to present and future drainage work. The policy is set out

(Continued on page 8)

## **NEENAH FOUNDRY CO.**

**NEENAH, WIS.**

**MANUFACTURERS OF**

**Manhole Covers - Catch Basin Inlets  
and CONSTRUCTION CASTINGS for  
Highway - Municipal - Building  
Industrial - Communication - Public Works  
Airport - Utilities - Transportation**

*Write for Catalog "R," Second Edition*

**308 WEST WASHINGTON STREET  
CHICAGO 6, ILLINOIS**

## **ERIC BOLANDER CONSTRUCTION CO.**

**Winchester Road  
Libertyville, Illinois**

**CONTRACTORS**

•

**Paving, Grading, Bridges, Piers,  
Dams, Sewers**



# News From Chapters

## ILLINOIS VALLEY CHAPTER

March 29, 1955

The regular dinner meeting of the Illinois Valley Chapter of the Illinois Society of Professional Engineers was held on March 29, 1955, at the Ottawa Boat Club. Forty-one members and guests were present.

President McNally presided at the meeting. The minutes of the previous meetings were read and approved. Plans were made to attend the Annual Convention of the Illinois Society of Professional Engineers at Rockford. The Program Committee reported that the Annual Ladies Night will be held on Tuesday, April 26, 1955, at Pine Hills Country Club in Ottawa. This affair will be an informal dinner dance.

Membership Chairman Ross Waite discussed the necessity for a complete and up-to-date list of all registered Professional Engineers in the State.

The new members, Bernard Rentz and Eugene Stevenson, Engineers in Training, were introduced and received their Society Pins.

Following the business meeting, the Program Chairman, Mel Hook, introduced Mr. Pat Restaino, Sales Engineer for Dow Corning Corporation. He showed interesting movies and discussed many of their Silicone products used in all fields of Engineering.

The meeting adjourned at 10:30.

FRANCIS E. SEXTON, Sec.-Treas.

## CENTRAL ILLINOIS CHAPTER

March 24, 1955

The regular meeting of the Central Illinois Chapter of the Illinois Society of Professional Engineers was held as a dinner meeting at 6:30 p.m., Thursday, March 24, 1955, in room 201 of the Y.M.C.A. in Decatur, Illinois, President Vail H. Moore presiding. There were 18 members present.

President Moore read a letter from the National Guard announcing a recruiting drive. Minutes of the February meeting were read and approved.

Dr. Herman Dorn introduced the speaker of the evening, Mr. Virgil Gunlock, who spoke on "Professional Activities of Your Society."

After a period of questions and answers, the meeting was adjourned at 9:15 p.m.

J. P. BOYER, Secretary *Pro tem*.

## CHICAGO CHAPTER

April 15, 1955

The regular monthly meeting of the Chicago Chapter, I.S.P.E., was held in the faculty lounge of the Northwestern University Technological Institute. President Sommerschild called the meeting to order at 7:30 P.M. There were 41 members and guests present.

Following the introduction of guests, Dr. John Logan welcomed the group to the campus. Mr. Sommerschild expressed the appreciation of the members for the fine hospitality shown by the Institute.

K. C. Hoeglund then gave a brief report on the annual meeting at Rockford, at which about 50 members and wives from the Chicago Chapter were present.

The president announced that the customary Legislative Dinner would be held in Springfield on May 17, 1955, and asked that members interested in attending and sponsoring a legislator at this affair contact him.

Linus Brown announced that the next meeting would be held at the Chicago Engineers' Club on May 12, and that Mr. M. J. Amann, President of the Engineers and Scientists of America, would be the speaker.

Mr. Brown then introduced the speaker of the evening, Mr. Jerry Voorhis, Executive Director of the Cooperative League of the U.S.A., who described the operation and history of cooperatives. He noted that credit unions, mutual insurance companies, farm cooperatives, rural electric cooperatives, and many others are common to all parts of the country. He stated that cooperatives are formed to provide services for people who couldn't otherwise obtain them. A lively question period followed.

The meeting was adjourned at 9:15 p.m.



SIXTH ANNUAL CHAPTER OFFICERS CONFERENCE, HOTEL JEFFERSON, PEORIA  
MARCH 29, 1955



(Continued from page 6)

in a memorandum in the hands of this Committee. If this policy is not being followed, the circumstances should be reported and investigated.

#### *Wallace Case*

This is a case involving violations in filing of plats and maps by other than County Surveyors and Registered Land Surveyors in Henry, Warren and Mercer Counties. Complaint was filed originally by Mr. Dwain M. Wallace. A very quick and efficient investigation was made by the West Central Chapter Ethics and Practice Committee. The recommendations made by the Chapter Committee and by our Committee to the Board of Direction are given below. At the Jan. 8, 1955 meeting of the Board of Direction, these recommendations were approved and ordered to be complied with.

1. Direct a letter to the Department of Registration and Education requesting that a list of Registered Illinois Land Surveyors be mailed annually to both the County Clerks and Recorders of each County in the State. This is for compliance with paragraph 51, Chapter 133, "Surveyors and Surveys," of the Illinois Revised Statutes.

2. Direct a letter to the Attorney General requesting that he advise the States Attorneys of the several Counties that Recorders in numerous instances have filed illegal maps, plats or sub-divisions of land prepared by other than County Surveyors or Registered Illinois Land Surveyors as stipulated in Paragraph 13, Chapter 115, "Recorders" of the Illinois Revised Statutes.

3. That these letters be authorized by the Board over the signature of the President and Secretary.

#### *Talks at Chapter Meetings*

Our Committee members are still willing and anxious to talk at Chapter meetings for discussion of matters pertaining to Ethics and Practices. The various Chapters are urged to take advantage of this offer.

#### *Relationship with Department of Registration and Education*

Establishment of better relations between our Committee and the Department of Registration and Education continued during the year. While there was some

improvement of these relations, it is felt by our Committee that these relations can be considerably improved.

#### *Relationship with NSPE Ethical Practices Committee*

A good and firm relationship has been made with NSPE Ethical Practices Committee Chairman, Mr. V. G. Terenzio. This is important for determination of policy and regulations in other states. This relationship should be continued by our Committee.

#### *Responsibility for Infractions to Structural Engineers Act and Land Surveyors Act*

The Board of Direction has charged our Committee with responsibility of investigation of infractions and unethical practices in connection with the Registered Structural Engineers Act and the Registered Land Surveyors Act as well as the Registered Professional Engineers Act.

#### *Rules of Procedure*

The Rules of Procedure of our Committee have been reproduced and sent to all holders of Chapter Handbooks for insertion therein.

#### *Recommendations*

Our Committee makes the following recommendations:

1. It is recommended that the Board of Direction remind the proper committees of their responsibility to continue their efforts towards securing changes in the Legislative Acts for incorporation of the injunctive clause therein.

2. It is recommended that the Board of Direction explore the possibility of designating a legal advisor for the Society so that legal counsel can be provided for the use of our Committee as well as any other Committee that so desires.

3. It is recommended that provisions for the present make-up of our Committee be incorporated in our Constitution and By-Laws, and that the Board of Direction authorize the proper Committees to draft such amendments for presentation to the membership for balloting, in the manner provided in our Constitution and By-Laws.

4. It is recommended that efforts towards maintaining and improving good relationships with the Department of Registration and Education be continued, and that

## **Peter Baker and Son Company**

**Lake Forest, Illinois**



**BITUMINOUS PAVING**

**E. A. MEYER CONSTRUCTION CO.  
1539 Morrow Ave.  
North Chicago, Illinois**

**GENERAL CONTRACTORS**



**Paving — Water Mains — Sewers**



the Board of Direction be authorized to take whatever action they deem necessary to implement this relationship.

5. It is recommended that the Board of Direction through the Executive Secretary again remind the new Chapter Officers that the Ethics & Practice Committee is charged with the responsibility of investigating infractions and unethical practices of the Registered Professional Engineers Act, the Registered Structural Engineers Act, and the Registered Land Surveyors Act, and that it is up to them to report such violations. Our Committee is ready and willing to investigate such violations if we are informed of them.

Respectfully submitted,

COMMITTEE ON ETHICS & PRACTICE

R. T. Cash

L. D. Hudson

L. K. Crawford

Wm. T. Hooper, Jr.

George DeMent

J. R. Gardner, Chairman

## EXECUTIVE SECRETARY'S REPORT (Continued)

(Continued from page 5)

followed with remarkable faithfulness. To name any one Chapter as having a better program would not be fair to all of the others, however, it is safe to say that interest in Chapter activity and the effectiveness of the Chapter in its area is entirely dependent upon the quality of its program. Chapter Representatives attended Board of Direction meetings in March, June, October and January. One new Chapter, Bradley Student Chapter, under the sponsorship of the Peoria Chapter, began to function in March, 1954. Representatives from the Student Chapter attended the 69th Annual Meeting in East St. Louis, and also the new Chapter was represented at two Board of Direction meetings. The trend toward student Chapters should be encouraged.

### Refresher Courses

During 1954 there were fourteen Spring and nine Fall Refresher Course Classes in preparation for the professional engineering examination. One structural and one land surveyor class were also sponsored. The Illinois Society continued to enjoy a mutually friendly and cooperative relationship with the Division of Extension of the University of Illinois.

The third edition of the Examination Book was reprinted three times and a total of 4,000 copies of the book have been sold during the last 30 months (the third edition of the book was published in September, 1952). If possible, new material will be added and the fourth edition will make its debut in time for use by fall refresher course classes.

### Bulletin

The preparation and distribution of the Bulletin and the Membership Situation was fortnightly during 1954, except when it was necessary to reach those on the mailing list with information immediately. As a matter of

record, the Bulletin was begun as an experiment in January, 1949. Your Executive Secretary wrote Bulletin No. 2 in February, 1949, and has written all Bulletins except one which was written by Virginia Svoboda on October 23, 1953. The present practice of twice a month publication will be continued so long as it appears to be advisable.

### Publications

Besides the ILLINOIS ENGINEER, the Illinois Society publishes a Recommended Schedule of Minimum Fees and Salaries. This book is widely used not only in Illinois, but by several consultants in the mid-west, as a part of their contract proposals. The price of individual copies is \$1.00 and the bulk price is \$10.00 per dozen. The third edition of this booklet was published in a 6 x 9 size instead of the 3½ x 6 size of its predecessor.

A brochure, the material for which was prepared by Advertising Chairman Ken Welton, was published in the Fall, giving information about those who read the ILLINOIS ENGINEER. This pamphlet has also been used successfully by some Chapter Membership Chairmen.

If the money can be found to publish a revision of the membership directory, that task should be done in the summer of 1955.

### Ladies Auxiliaries

With the Chartering of Rockford Unit No. 4 in October, ladies auxiliary units are found in northern, central and west-central Illinois. Other Chapters have done some talking about organizing units. The ladies who attended the 69th Annual Meeting in East St. Louis came away enthusiastic about their organization. Invariably the ladies have fun without it becoming a burden in the units now functioning.

### Meetings

In October a joint meeting was held between a committee of the Illinois Association of Highway Engineers and the State Engineering Employees Committee in Chairman Elmer Knight's office. The desirability of combining the two groups was first discussed and later the practicability of the proposal was investigated. The consensus of the meeting was that the proposal to combine was mutually beneficial, and the request was made that a proposal be prepared by the Illinois Society to the I.A.H.E., to be presented to their meeting in January, 1955. Such a proposal was prepared and presented to the Board of Direction at its January 8th meeting. The Board approved the proposal in intent and instructed the Executive Committee to work out a proposal to the I.A.H.E. The Executive Committee met in Peoria on January 22, 1955 and prepared and sent a proposal to the Highway Engineers. The Highway Engineers received the proposal and appointed four men from their group as their part of a joint committee to meet and work out the details.

On November 10th, President Klassen, Secretary Spicer, and Executive Secretary Roberts met with Director Vera Binks and the Department of Registration and Ed-



ucation's attorney, Mr. Phil Hutchinson. Many things were discussed, among them being the ways and means of getting better enforcement of the Professional Engineering Act, the obtaining of the list of those who passed the November P. E. Examination, the proposal to present registration certificates at a Chapter meeting, the publication of the roster of Illinois registered professional engineers, proposed injunctive clause in the professional engineering act, and several other things which the Department of Registration and Education and the Illinois Society have a common interest in. There is a desire to cooperate with the Illinois Society by Director Binks; however, some things beyond her control make cooperation difficult. Steps toward the correction of points of difference have been taken.

#### *Executive Secretary's Office*

The daily work load of the Executive Secretary's office remains high, however, with the work spread out from the time the dues statements are prepared in November, to the clean-up of the work connected with the Annual Meeting in May, previously experienced jams have been eliminated. A good index of the work done is the number of pieces of mail sent out of the office during the year. In 1954 there were 6,963 first class, 54 second class and 3,447 third class pieces of mail, or over 10,000. These figures do not include the more than 20,000 ILLINOIS ENGINEERS mailed during the year. You are reminded that the Executive Secretary's office is respon-

sible for, and makes the corrections to the ILLINOIS ENGINEER mailing list. It is not unusual to make over 100 changes of address per month. The work load is carried with the help of good equipment, willing helpers and know-how.

The Executive Secretary's office was moved from its former location to its present address, 614 East Green Street, Champaign, in July. The present area is in one piece instead of being in two parts as previously.

#### *Chapter Officers' Conference*

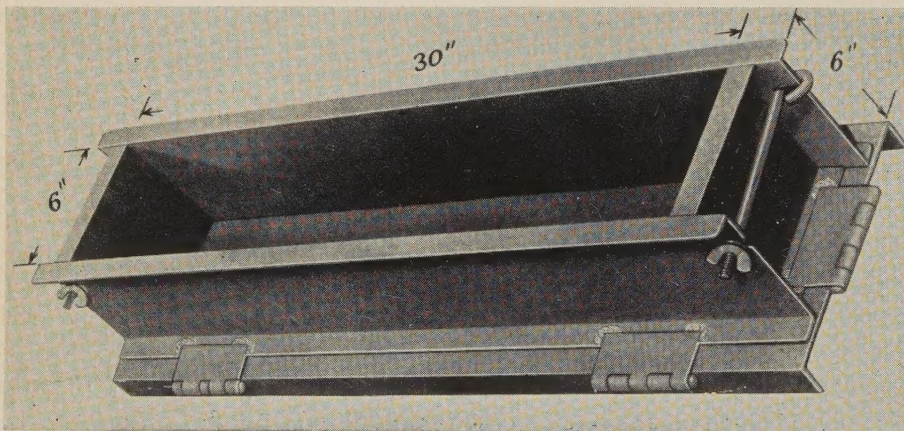
The Seventh Annual Chapter Officers Conference was held in the Jefferson Hotel in Peoria on January 30, 1954 with 37 present. As usual, this is one of the most constructive meetings held each year and it is an excellent means of acquainting Chapter officers with each other and with their mutual problems.

#### *Personnel of Office*

The work of the Executive Secretary's office was carried on by Mrs. Carlson and Mrs. Svoboda through 1954. In January, 1955, Mrs. Donna Freeman came to the office as number one helper.

The zest has gone out of learning today. It is no longer a glorious adventure but a bottle-neck through which a student must squeeze himself on the way from infancy to a lucrative profession.

—*Queen's Quarterly, Canada.*



**6 x 6 x 30 Steel Form for Concrete Test Beams**

**Steel Stairs**  
**Cast Iron Products**  
**Ornamental Iron**  
**Bronze and Aluminum**  
**Wrought Iron**  
**Miscellaneous Iron**  
**Stainless Steel**  
**Flag Poles**  
**Stop Plates and Grooves**  
**Bronze Bolts**  
**Aluminum Sash and Doors**

# ORNAMENTAL METALWORKS CO.

440 South Franklin Street

Phone 8-3446

DECATUR - - - ILLINOIS



# PROFESSIONAL DIRECTORY

## DE LEUW, CATHER & COMPANY

CONSULTING ENGINEERS

Transportation, Public Transit and Traffic Problems  
 Industrial Plants      Grade Separation  
 Railroads      Expressways  
 Subways      Tunnels  
 Power Plants      Municipal Works  
 150 North Wacker Drive      79 McAllister Street  
 Chicago 6, Illinois      San Francisco 2, Calif.

## GREELEY AND HANSEN

ENGINEERS

Water Supply, Water Purification, Sewerage, Sewage  
 Treatment, Flood Control, Drainage, Refuse Disposal

220 SOUTH STATE STREET  
 CHICAGO 4, ILL.

## ALVORD, BURDICK & HOWSON

Water Works      Water Purification      Flood Relief  
 Sewerage      Sewage Disposal      Drainage      Appraisals  
 Power Generation

20 NORTH WACKER DRIVE      CHICAGO 6, ILL.

## ROCK ISLAND BRIDGE & IRON WORKS, INC.

Charles R. Roberts, Member NSPE, President  
 FABRICATED STRUCTURAL STEEL FOR  
 BRIDGES AND BUILDINGS

1603 Mill Street      Phone 6-4405  
 Rock Island, Illinois

## JENKINS, MERCHANT & NANKIVIL

Consulting Engineers

Municipal Improvements      Sewerage  
 Power Development      Water Systems  
 Traffic Surveys      Industrial Plants  
 Flood Control      Recreational Facilities  
 Air Ports      Investigations and Reports  
 805 East Miller Street      Springfield, Illinois

## CRAWFORD, MURPHY & TILLY

CONSULTING ENGINEERS

Water Works, Sewerage, Airports, Street  
 Improvements, Traffic Surveys

PHONE 8-5619  
 755 S. GRAND AVE., WEST      SPRINGFIELD, ILL.

## LEE I. OSBORN

Engineer-Contractor

Bridges      Drainage & Levee Work  
 Foundations      Heavy Excavation  
 Docks & Pile Driving      Grading & Paving  
 P. O. Box 2      Muscatine, Iowa

## RUSSELL AND AXON

CONSULTING ENGINEERS

Civil—Sanitary—Structural  
 Industrial—Electrical  
 Rate Investigations

408 Olive Street, St. Louis 2, Missouri  
 Municipal Airport, Daytona Beach, Florida

## STANLEY ENGINEERING CO.

CONSULTING ENGINEERS

327 South LaSalle Street      Hershey Building  
 Chicago 4, Illinois      Muscatine, Iowa

## CRESCENT ENGINEERING COMPANY, INC.

Contracting and Consulting Electrical Engineers  
 Design, Supervision and Construction

Process Power and Lighting for Industrial Plants  
 6455 S. CENTRAL AVENUE      CHICAGO 38, ILL.

## C. L. CALKINS

PROFESSIONAL ENGINEER

Mechanical and Electrical Engineering  
 Since 1916

Designing and Development of Special Machinery  
 Research—Reports—Tests—Layouts—Plans and Specifications  
 Illinois Registration

644 Lorraine Avenue      Waukegan, Illinois  
 Telephone MAjestic 3-1090

Use of this space is limited to members and associates of the Society. This is a dignified and excellent way to let engineers know that your firm can always accept another account. The price is very reasonable. A card or letter to the Secretary, 614 East Green Street, Champaign, Illinois, will bring full details.

## COST OF LIVING INDEX

The cost of living correction factor to be applied to the I.S.P.E. Schedule of Minimum Fees and Salaries is based upon the Consumer Price Index of the 1947-49 average as determined by the Bureau of Labor Statistics. On the 1947-49 base the correction factor for March 1955 is 114.3.

I hold every man a debtor to his profession; from the which as men of course do seek to receive countenance and profit, so ought they of duty to endeavor themselves by way of amends to be a help and ornament thereunto.

Sir Francis Bacon



## Engineering Societies Personnel Service, Inc.

New York Chicago Detroit San Francisco  
84 East Randolph Street, Chicago 1, Ill. STate 2-2748

*These items are from information furnished by the Engineering Societies Personnel Service, Inc., Chicago. This SERVICE is operated on a co-operative non-profit basis by the Illinois Society of Professional Engineers, and the national societies of Civil, Electrical, Mechanical and Mining and Metallurgical Engineers. Apply to ESPS, Chicago and the key number indicated. Prepared ENGINEERS AVAILABLE advertisements limited to 40 words, with typed resumé attached may be submitted to ESPS Chicago by members of the Illinois Society of Professional Engineers at no charge.*

*If placed in a position as a result of an Engineers Available or Position Available advertisement, applicants agree to pay the established placement fee. These rates are available on request and are sufficient to maintain an effective non-profit personnel service. A weekly bulletin of positions open is available to subscribers. Apply E. S. P. S., Chicago.*

### OVER THE MANAGER'S DESK May 1955

*Last month we asked some employers if they would be interested in a charting service showing salary curves. The information for this service would be taken from our files and we would try to show current asking prices and employers offering salaries for different categories of men.*

*As we are not a charting organization, it means we would have to go to considerable time and expense in order to give you this data, so we are sounding out employers to see if they could use this type of service and if they would be willing to subscribe to it at a nominal annual rate. We do not know our actual cost as of now, but from the figures we have secured so far, it will probably run less than \$50 a year.*

*Up to the time this is being written, we have received some letters from employers, but not enough to really judge the situation.*

*If you have any ideas or suggestions either for or against such a service, will you be kind enough to drop us a line and let us have your reaction? We want to Serve You, but cannot do so unless we know what you want. Thank you. BONNELL H. ALLEN*

### MEN AVAILABLE

**Production Engr.** 33. M.E. 31 mos. design drafting and field service of electro-mechanical and elect. eqpt. 3 mos. inspect structural steel for visual defects. \$6000. Chicago. 177-PE

**Physicist.** 49. Ph.D. Physics. 21 yrs. research and development of special instruments. 19 yrs. concurrent written above teaching physics and cosmic radiation. \$9600. Chicago. 179-PE

**Jr. Engr.** 28. Engrg. 3½ yrs. analyzing, repairing and testing A.C. and D.C. bridges, radar indicators and radar test eqpt., oscillators and oscilloscopes. \$4800. Chicago. 180-PE

**Staff Engr.** 34. M.E. 2 yrs. plant layout, layout of process eqpt., sewer lines and ventilating systems. 7 yrs. design of material handling and new ordnance equipment. \$7000. Chicago. 181-PE

**Sales Engr.** 26. C.E. 4 yrs. charge of soil testing, necessary for identification, classification, and evaluation of base material. 1 yr. made estimates for road base and surface construction. \$6000. Midwest. 182-PE

**Ch. Engr.** 53. E.E. 16 yrs. field supervision estimating, cost analysis, surveys, reports,

design and procurement of eqpt. 10 mos. design of power stations. 22 mos. charge of electrical constr., maintenance, preparation of estimates and specs., and supervising field forces. \$11,000. Midwest. 183-PE

**Consultant.** 49. E.E. 7 yrs. planning elec. and distrib. systems, specs., supervising draftsmen, field inspections, costs, and contact contractors. 3 yrs. purchasing pressure vessels; piping; elec. motors and controls. \$8400. Chicago. 184-PE

**Factory Mgr.** 34. M.E. and M.B.A. 8 yrs. resp. for production activities, labor relations, plant maintenance and install production control systems. 1½ yrs. supervised and taught production mgmt. 2½ yrs. supervised investigation and elimination of production bottlenecks. Knowledge of machinery and metal products mfg. \$10,000. Chicago. 186-PE

**Field Engr.** 36. A.E. and E.E. 3 yrs. supervise preparation of electrical ltg. and pwr. drawings for construction. 6 mos. inspecting areas and bldgs., testing of eqpt., ordering materials and expediting material orders. \$7200. Chicago. 191-PE

### POSITIONS AVAILABLE

**Sales Engineer.** Age: 28-40. 2 plus yrs. exp. in sales or application of electronic products. Knowledge of micro wave (wave guides). Duties: selling line of micro wave components and equipment to manufacturers of electronic sets. For an electronics mfr. Salary: \$7000 plus commission and expenses. Employer will negotiate fee. Occasional traveling. Car required. Location: Chicago headquarters. C-2984

**Sanitary Engineer.** San. or C.E. 2 plus yrs. exp. in application or operation of sewage treatment equipment. Knowledge of sewage and waste treatment. Duties: application work on sewage and waste treatment eqpt. For mfr. of pumps. Salary: Up to \$7500 per yr. Employer will negotiate fee. Location: Western Chicago Suburb. C-2973

**Construction Supt.** Grad. C.E. Age: to 45. 5 plus yrs. exp. in heavy type of construction. Exp. in constr. costs. Knowledge of chemical or oil industries desirable. Duties: supervise constr. of heavy plate work, tanks, foundations, etc. for chemical and oil refinery construction. Assignments all over country — usual duration of job about 6 months. Salary: \$8000 to \$10,000 plus incentive. Location: Headquarters: Chicago. C-2958

**Plant Engineer.** Age: 35-45. 5 plus yrs. exp. in maintenance and operation of power

plant, mechanical equipment and kilns. Knowledge of malting operations desirable. Duties: handling complete plant engrg. problems on above equipment. For malt mfr. Salary: \$7500 to \$10,000. Employer will negotiate fee. Location: Wisconsin. C-2954

**Office and Field Engineer.** Degree in engrg. or equival. exp. Age: 25-40. 5 yrs. exp. waterworks and sewer design and construction. Knowledge of waterworks and sewerage construction. Duties: field engineer in charge of inspection of constr. work. For a consulting engr. Sal.: \$450. Travel: yes. Car required. Location: Illinois. C-2952

**Process Engineer—Chemical.** Chem. Eng. or M.E. Age: 30-35. 3 plus yrs. exp. in processing work in process industries and equipment. Knowl.: electronics desirable. Duties: taking physical process and putting it into a system that an analogue computer can handle and then interpreting results for practical use. For an oil refinery. Sal.: \$500-\$750 per mo. Location: Calumet district. C-2949

**Field Consulting Engr.** M.E. Age: 30-40. 3 plus yrs. exp. in design or development of variety of products. Sales personality. Duties: working with clients in plant engrg. machine tool and product design fields determining desirable information for copy writing and cataloging nomenclature. Salary: \$7200. Employer will negotiate fee. Travel: 15 to 20%. No car required. Location: Chicago. C-2948

**Sr. Designer.** Grad. Mech. 5 plus yrs. exp. in small mechanism design. Knowl. of photographic or similar equipment desirable. Duties: Sr. design engr. take project from initial stages and carry through to completion. All work will be on small intricate parts and products. Sal.: \$8-10,000 depending on exp. Empl. might negotiate fee. Loc.: North Shore Suburb. C-2947

**Director of Engrg.** M.E. or Ag.E. Good administrator with 5 or more yrs. directing product development and engrg. activities. Know: farm machinery or road eqpt. desirable. Duties: directing engineering activities, product development and production tooling for new and improved farm machinery. For a mfr. of farm machinery. Sal.: \$14-20,000. Location: Ohio. C-2925

**Paper Engineer—Research.** Chem. or Chem. Eng. Duties: research and development in paper quality control or production. For mfr. of building materials. Salary: \$600 per month and up. Location: Chicago. C-2901